

AUTOMATIC FEATURE AUGMENTATION FOR COMPONENT BASED  
APPLICATION PROGRAMMING INTERFACES

ABSTRACT OF THE DISCLOSURE

Automatically augmenting functionality in an application programming interface

5 (“API”) is provided by receiving from an application a request for functionality to be fulfilled by a first component implementing at least a portion of the functionality within the application programming interface. The first component is queried for the requested functionality. If an indication that the first component does not implement the requested functionality is received, the a search for an augmentation component that

10 implements the requested functionality is initiated. If an augmentation component supplying the required functionality is found, the augmentation component is loaded to fulfill the request for functionality in place of the first component and used to respond to the request for functionality. Augmentation components provide a subset of the API’s required functionality, thereby removing a limitation from API components (i.e.,

15 functionality completeness). Augmentation components may also be used to provide new functionality for the API to all existing components (i.e., functionality enhancement).